Yahoo Group Archive: 49_MHz

Yahoo Group summary: 49 Mhz Experimental Radio

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2018. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2011-03-17 through 2013-11-13

Source WARC: 49_mhz.B7cw9Nx.warc.gz

Source item: https://archive.org/details/yahoo-groups-2018-09-13T17-53-04Z-0cd832

Messages included in this PDF: 41

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. FLDigi?

Yahoo group: 49_MHz
Date: 2011-03-17 20:47:14 UTC
From: Steven C
Topic: 1 Message: 1

Kurt et al,

Nice to see the group going again!

Several months ago I tried free FLDigi software over a MW BCB home broadcaster. FLDigi requires little more than a couple audio-isolation transformers between the computer and the radio equipment. Reports say it can communicate through noise where voice can't be heard.

Has anyone here tried FLDigi or PSK on 49-MHz?

BTW, I now live in Everett, WA, USA near the community college. As I'm in senior housing, I shouldn't have any 6-month olds transmitting right on top of me.

73,

Steven

2. Re: [49_MHz] FLDigi?

Yahoo group: 49_MHz
Date: 2011-03-17 20:52:10 UTC
From: Facility 406 DM09
Topic: 1 Message: 2

Good to see you again!

I'v heard of FLDigi, I don't recall having played with it in the past. I'll download it shortly and see what it's capable of.

Will you be using this with AM of FM or do you have equipment capable of CW at 49 MHz?

I do a lot of weak signal detection on HF with Argo, no problems up through 10m.

I've bought several TTL oscillators in the 49 MHz range, thinking of setting one in the hills a few miles from here with a solar panel and basic keyers and see if I can pick it up on my IC-706MKIIG. I have a 7 elemrnt Log Periodic Dipole array that has several dBi gain at 49 Mhz, I'll use that on the receive end.

Kurt

----- Original Message -----
From: "Steven C" <steven_coles@...>

Several months ago I tried free FLDigi software over a MW BCB home broadcaster. FLDigi requires little more than a couple audio-isolation transformers between the computer and the radio equipment. Reports say it can communicate through noise where voice can't be heard.
Has anyone here tried FLDigi or PSK on 49-MHz?

3. Audio Transformers?

Yahoo group: 49_MHz
Date: 2011-03-17 20:56:24 UTC
From: Facility 406 DM09
Topic: 3 Message: 3

I used to pick up 1:1 and 75:1 audio transformers at Radio Shack, but it seems they've stopped carrying them. I've been looking at the Xicon series sold by either Mouser or Digikey, I forget which. They aren't TOO costly, a couple of bucks each. I tried ebay and what little there was was in the several dollar to several HUNDRED dollar range!

Anyway, these are good for coupling various 49 MHz devices with an audio output to computer soundcards and recording devices.

Kurt

4. Re: Audio Transformers?

Yahoo group: 49_MHz
Date: 2011-03-17 21:26:26 UTC
From: Steven C
Topic: 3 Message: 4

Kurt et al,

I'll have to retrieve equipment from my daughter's shed. Then I'll be able to run CW, AM and FM. I think I could get DSB going without too much trouble.

Mall TheShack stores carry very few small parts. As of 6 weeks ago I saw the transformers you mention in an outlying store and still listen in the on-line catalogue a couple days ago. Transformers salvaged from modem cards also work.

73,

Steven

--- In 49_MHz@yahoogroups.com, "Facility 406 DM09" <facility_406@...> wrote:
>
> I used to pick up 1:1 and 75:1 audio transformers at Radio Shack, but it
> seems they've stopped carrying them. I've been looking at the Xicon series
> sold by either Mouser or Digikey, I forget which. They aren't TOO costly, a
> couple of bucks each. I tried ebay and what little there was was in the
> several dollar to several HUNDRED dollar range!
>
> Anyway, these are good for coupling various 49 MHz devices with an audio
> output to computer soundcards and recording devices.
>
> Kurt
>

5. Re: [49_MHz] Re: Audio Transformers?

Yahoo group: 49_MHz
Date: 2011-03-17 21:31:19 UTC
From: Facility 406 DM09
Topic: 3 Message: 5

"As of 6 weeks ago I saw the transformers you mention in an outlying store and still listen in the on-line catalogue a couple days ago. Transformers salvaged from modem cards also work."

I'll double check when I'm in town. I cna't help but think the stuff from Mouser would be far better. I do have several 1:1 transformers pulled from modems, one I used for a PSK31 modulated varactor tuned Ramsey rig. I put the 1:1 in line with the varactor circuit, then pumped it with audio from Digipan, decode was perfect on HF regardless of mode used on the receive end.

Kurt

6. howdi all

Yahoo group: 49_MHz
Date: 2011-03-17 23:13:56 UTC
From: allan
Topic: 6 Message: 6

Was in the old group. Have been interested in 49 mhz for a long time wiht a aim of local apartment casting to myself. I have some 49 mhz equipment and will publish photos soon. 73 es 88s de Allan Egleston
Sonora Ca USA.

7. Re: [49_MHz] howdi all

Yahoo group: 49_MHz
Date: 2011-03-18 04:10:41 UTC
From: Facility 406 DM09
Topic: 6 Message: 7

Could someone still able to post to the 49megahertz@yahoogroups.com group please send a message letting know we are active over here? I've been trying to invite individuals from that group as I find them, but it's difficult. A message to the group with the "special notice" option checked, when posted from the group page, should get through to all current members.

Thanks,

Kurt

8. DC receivers?

Yahoo group: 49_MHz
Date: 2011-03-18 04:16:12 UTC
From: Facility 406 DM09
Topic: 8 Message: 8

Has anyone tracked down any direct conversion receiver kits for 49 Mhz using the 602 series chips? These could be great for CW and SSB recption.

Kurt

9. Re: [49_MHz] Re: Audio Transformers?

Yahoo group: 49_MHz
Date: 2011-03-18 23:53:02 UTC
From: Facility 406 DM09
Topic: 3 Message: 9

I checked all the local Rat Shacks, NO audio transformers, in fact very little of anyhting we'd be interested in as communications hobbyists. They did have the same two types of isolation transformers they've always carried available online, BUT, $4 each, I thought I was getting screwed paying $1.89 the last time I was there. Looks like I'll be getting a selection from Mouser or Digikey.

Kurt

10. Voice recorders?

Yahoo group: 49_MHz
Date: 2011-03-18 23:55:05 UTC
From: Facility 406 DM09
Topic: 10 Message: 10

Anyone have any leads or ideas on some inexpensive, yet excellent audio quality digital voice recorder/playback units? Something that can take twenty or thirty seconds of audio should be good for beaconing in AM or FM. These could work out for either voice or digital mode playback.

I recall seeing some basic units at a "Build A Bear" workshop in the Mall, I think they were around $7, I might pick one up and try it out, but it might be a little TOO cheap, quality wise.

Kurt

11. Re: Voice recorders?

Yahoo group: 49_MHz
Date: 2011-03-21 02:34:10 UTC
From: n9noc
Topic: 10 Message: 11

Radiotone simplex repeater controllers are available for about$70.00

--- In 49_MHz@yahoogroups.com, "Facility 406 DM09" <facility_406@...> wrote:
>
> Anyone have any leads or ideas on some inexpensive, yet excellent audio
> quality digital voice recorder/playback units? Something that can take
> twenty or thirty seconds of audio should be good for beaconing in AM or FM.
> These could work out for either voice or digital mode playback.
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> I recall seeing some basic units at a "Build A Bear" workshop in the Mall, I
> think they were around $7, I might pick one up and try it out, but it might
> be a little TOO cheap, quality wise.
>
> Kurt
>

12. Newby here...

Yahoo group: 49_MHz
Date: 2011-03-21 02:54:31 UTC
From: Carole C
Topic: 12 Message: 12

Hi... I'm new to the radio hobby, been exploring different areas to see where I'd like to "settle". So far I
enjoy listening more than anything else... Not much into talking unless I have something that needs to be
said! Anyway, I just wanted to introduce myself and "warn" you -- no doubt I'll have lots of questions! Kurt
is a friend, he told me about the group. Anybody care to have a go at telling me what you're all about???

I was told that I have a "callsign" here... 49h7cc. Cool...

Carole

13. Re: [49_MHz] Re: Voice recorders?

Yahoo group: 49_MHz
Date: 2011-03-21 03:20:39 UTC
From: Facility 406 DM09
Topic: 10 Message: 13

Radiotone simplex repeater controllers are available for about$70.00

Was hoping for something under $10.

Kurt

14. Re: Audio Transformers?

Yahoo group: 49_MHz
Date: 2011-03-21 10:02:55 UTC
From: Steven C
Topic: 3 Message: 14

Kurt et al,

I should have mentioned that some of us in a group usually focused on frequencies below 10 MHz collect defunct clock radios for the ferrite-rod antenna coils, variable polycaps, etc. A couple times we've substituted clock-radio power transformers for TheShack RS 276-1380 output transformers. We use transformers with 120-VAC primaries and 10-to-12-VAC secondaries.

Subjectively the power transformers have good bass and low losses, but bulk up a project quite a bit. While I've not had occasion to try it (but will soon), the power transformers should work in reverse for low-impedance microphone to FET, BJT, or tube inputs. Obviously, these tap-less transformers do not work for push-pull amplifiers ☐ at least not without trick stuff.

If someone plans a Popular Electronics VHF T-Ear for 49-MHz, consider transformer coupling. (The PE VHF T-Ear is a circa 1957 2-transistor amplified VHF crystal set usually built for 108-136 MHz.) Four or five years ago crystal-set and amplified-crystal-set builders starting using a "Benny" plus transformer coupling on the audio side. The three extra parts definitely improve performance on the MW AM broadcast band and low shortwave. But I've not heard reports for frequencies above about 6 MHz.

A "Benny" consists of a 22-uF capacitor in parallel with a 22-K resistor and the pair in series the demodulator diode. It reduces diode DC loading while passing the audio signal at full volume. (Now that I've typed that, I notice I have a 0.33-uF capacitor paralleling a 100-K resistor in the amplified diode receiver on my bench. Experiment.)

Crystal sets operate best into a 20-K to 100-K audio impedance. Serious contesters use a "Select-to-Match" box built around a couple multi-tapped audio transformers and switches. However, I've obtained good improvements with a 120-VAC to 7-VAC clock-radio power transformer.

Happy experimenting and communicating,

Steven

--- In 49_MHz@yahoogroups.com, "Facility 406 DM09" <facility_406@...> wrote:
>
> I checked all the local Rat Shacks, NO audio transformers, in fact very
> little of anyhting we'd be interested in as communications hobbyists. They
> did have the same two types of isolation transformers they've always carried
> available online, BUT, $4 each, I thought I was getting screwed paying $1.89
> the last time I was there. Looks like I'll be getting a selection from
> Mouser or Digikey.
>
> Kurt
>

15. Simple Basic 49 MHz Computing using RTTY and SSTV

Yahoo group: 49_MHz
Date: 2011-03-26 00:39:32 UTC
From: Adam E
Topic: 15 Message: 15

I wish I could get my FCC license to operate in the Ham Bands, but I got an interesting idea what to do help you prepare for digital communications. You see, there is a program, yes it's for hams, but if it comes out of a sound card from any computer, you can connect your 49 MHz rig to your sound card and do what hams do, except it's on 49 MHz. I should have done this along time ago, but when I found out that the modulation comes out of the sound card just like music, I was impressed. So I downloaded these programs from Japan from mmhamsoft. I want everyone to get started in these software programs and just practice with your friends and family, you can send text, pictures, and share the web with new friends via 49 MHz. It's legal only when you do not use too much power and use short antennas. This will give me good practice and experience using these freeware programs and then when I do get my FCC ham license, I will be prepared to be on the 2 meter, 6 meter ranges Part 15 has more freedom than ham radio does, and you can send notes and stuff with this it's a practice playground. As long it's out of a sound card, no problem.

http://mmhamsoft.amateur-radio.ca/pages/home.php

Adam Ebel
Virginia Beach, VA 49N4AE

16. music broadcasts

Yahoo group: 49_MHz
Date: 2011-04-08 03:51:26 UTC
From: allan
Topic: 16 Message: 16

Howdi. Am wondering if anyone uses 49 mhz to broadcast (dj) I have a friend in my area but he is way out of range. Have a slightly moded babye listener for tx. Allan Egleston Sonra Ca USA.

17. Re: [49_MHz] music broadcasts

Yahoo group: 49_MHz
Date: 2011-04-08 04:15:11 UTC
From: Facility 406 DM09
Topic: 16 Message: 17

I've never thought of 49 MHz for broadcasts, just FMBC and thinking of getting a nice synthesized unit for AMBC.

Kurt

----- Original Message -----
From: "allan" <allanegleston@...>

Howdi. Am wondering if anyone uses 49 mhz to broadcast (dj) I have a friend in my area but he is way out of range. Have a slightly moded babye listener for tx.

18. Re: music broadcasts

Yahoo group: 49_MHz
Date: 2011-04-12 13:38:51 UTC
From: Adam E
Topic: 16 Message: 18

Kurt, The FM broadcast band is getting too crowded, and so is the AM broadcast band. All of the crappy stations live there, and over where I live they always put some religious, biblethumper here on the air here to block out the empty spaces such as BBN and K-Love, and Positive Hit Radio. Also another frequency for broadcasting when toy walkie talkies are on the air is 49.405 MHz, it was found on another walkie talkie set I had since 1996. I mostly broadcast on 49.860 MHz, but if the channel is busy then I relocate to 49.405 MHz to minimize interference. With 49 MHz you have the freedom to do what you want, and we all should understand that.

Adam Ebel
Virginia Beach, Virginia

49N4AE

--- In 49_MHz@yahoogroups.com, "Facility 406 DM09" <facility_406@...> wrote:
>
> I've never thought of 49 MHz for broadcasts, just FMBC and thinking of
> getting a nice synthesized unit for AMBC.
>
> Kurt
>
> ----- Original Message -----
> From: "allan" <allanegleston@...>
>
> Howdi. Am wondering if anyone uses 49 mhz to broadcast (dj) I have a friend
> in my area but he is way out of range. Have a slightly moded babye listener
> for tx.
>

19. Re: [49_MHz] Re: music broadcasts

Yahoo group: 49_MHz
Date: 2011-04-12 13:43:29 UTC
From: allan egleston
Topic: 16 Message: 19

I do same . A buddy also uses 49.86 Allan Egleston Sonora Ca USA

From: Adam E <gccradioscience@...>
To: 49_MHz@yahoogroups.com
Sent: Tue, April 12, 2011 6:38:51 AM
Subject: [49_MHz] Re: music broadcasts

Kurt, The FM broadcast band is getting too crowded, and so is the AM broadcast band. All of the crappy stations live there, and over where I live they always put some religious, biblethumper here on the air here to block out the empty spaces such as BBN and K-Love, and Positive Hit Radio. Also another frequency for broadcasting when toy walkie talkies are on the air is 49.405 MHz, it was found on another walkie talkie set I had since 1996. I mostly broadcast on 49.860 MHz, but if the channel is busy then I relocate to 49.405 MHz to minimize interference. With 49 MHz you have the freedom to do what you want, and we all should understand that.

Adam Ebel
Virginia Beach, Virginia

49N4AE

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>
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> getting a nice synthesized unit for AMBC.
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> Kurt
>
> ----- Original Message -----
> From: "allan" <allanegleston@...>
>
> Howdi. Am wondering if anyone uses 49 mhz to broadcast (dj) I have a friend
> in my area but he is way out of range. Have a slightly moded babye listener
> for tx.
>

20. wireless headphones

Yahoo group: 49_MHz
Date: 2011-04-12 20:10:54 UTC
From: allan
Topic: 20 Message: 20

I have a pair of radio shack 49.86 hts . Am toying with the idear of converting both of them into wireless headsets. Just an idear. Allan Egleston Sonora ca usa 49h6ae

21. 49 MHz Walkie Talkies Found At Deals Stores

Yahoo group: 49_MHz
Date: 2011-05-02 01:26:58 UTC
From: Adam E
Topic: 21 Message: 21

I was shopping around for groceries, and health care products I was
looking around for electronic stuff for a dollar or more, but did not have the extra money (tight budget). I found out that they are selling blue walkie talkies, and since they were so cheap, they do operate on 49 MHz. They were on the bottom shelf in a plastic box, but I didn't know how much they cost I think they were $5 or $7. I will have to be there next month and pick up a pair or more. I just wanted to share with the group that dollar stores have 49 MHz portable walkie talkies. I will try my best to call them up to confirm they are still there. They would make good starter rigs.

Adam Ebel
Virginia Beach, VA

22. Re: [49_MHz] 49 MHz Walkie Talkies Found At Deals Stores

Yahoo group: 49_MHz
Date: 2011-05-02 03:09:44 UTC
From: Facility 406 DM09
Topic: 21 Message: 22

Have you checked thirft shops and yard sales?

I generally pick these up for twenty-five to fifty cents. I offer the thrift shops the incentive to save them for me by offering them a dollar, they usually throw them away or get a quarter.

Kurt

----- Original Message -----
From: "Adam E" <gccradioscience@...>

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23. Re: 49 MHz Walkie Talkies Found At Deals Stores

Yahoo group: 49_MHz
Date: 2011-05-07 19:43:00 UTC
From: Adam E
Topic: 21 Message: 23

Well when I bought my radio shack radios or rigs. They sold me the pair at the DAV Thrift Store for $20.00. Some thrift stores can rip the customer off with non working radios (good for parts). When I bought my radios they were in a glass case and I could not hold on to them and they held them for me, but took a long time to get to me to purchase them. This was last summer. One radio has a problem with the channel selector. They are the same radios with NFM and 5 channels. The same radios you are displaying on your main group site. Gosh, I wish they would sell them for a quarter or .50, but with gas prices, these thrift stores where I live sell for more than a dollar.
I know, I live in rich mans city called Virginia Beach, VA when we should be living in Augusta, GA.

Adam Ebel
Virginia Beach, VA

--- In 49_MHz@yahoogroups.com, "Facility 406 DM09" <facility_406@...> wrote:
>
> Have you checked thirft shops and yard sales?
>
> I generally pick these up for twenty-five to fifty cents. I offer the
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> Kurt
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> ----- Original Message -----
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> the extra money (tight budget). I found out that they are selling blue
> walkie talkies, and since they were so cheap, they do operate on 49 MHz.
> They were on the bottom shelf in a plastic box, but I
>

24. music broadcasts

Yahoo group: 49_MHz
Date: 2011-05-12 21:20:16 UTC
From: allan
Topic: 16 Message: 24

Today5/12/11 @1429 hours pdt i performed a broadcast test of music on 49.86 The test was sucessful. I played a record of organ music via a slightly modified 49 wireless baby monitor. The audio was in good quality. Suprised me since this device is designed to pick up only 1 word and that is "wah" and other sounds from an infant. For rx i used the rx that came w the set. Now for dx testing. hmm. 73 . Allan Egleston Somora ca USA.

25. New Pic Posted.

Yahoo group: 49_MHz
Date: 2011-06-02 23:47:35 UTC
From: kd7jyk
Topic: 25 Message: 25

I posted a scan of a liquidation ad from the December 1985 Popular Science Magazine for the 49 MHz "Family Pager". It can be found under this groups webpage in the photos section.

Kurt

26. Re: FLDigi?

Yahoo group: 49_MHz
Date: 2011-06-25 17:49:03 UTC
From: bachelorsgrove_com
Topic: 1 Message: 26

I was going to recommend FLDIGI as well. I use it all the time while monitoring the Shortwave bands. Considering the amount of modes you can use I'd say the effort in learning the software (not hard) and getting the hardware built for patching the audio would be well worth it.

I have been building a few audio interfaces for some of my non-49MHz equipment for TX but I will let you all know how well it works for things like the TRC-xxx type radios using FLDIGI.

Pete

--- In 49_MHz@yahoogroups.com, "Steven C" <steven_coles@...> wrote:
>
> Kurt et al,
>
> Nice to see the group going again!
>
> Several months ago I tried free FLDigi software over a MW BCB home broadcaster. FLDigi requires little more than a couple audio-isolation transformers between the computer and the radio equipment. Reports say it can communicate through noise where voice can't be heard.
>
> Has anyone here tried FLDigi or PSK on 49-MHz?
>
> BTW, I now live in Everett, WA, USA near the community college. As I'm in senior housing, I shouldn't have any 6-month olds transmitting right on top of me.
>
> 73,
>
> Steven
>

27. Re: [49_MHz] Simple Basic 49 MHz Computing using RTTY and SSTV

Yahoo group: 49_MHz
Date: 2011-07-18 04:51:02 UTC
From: Facility 406 DM09
Topic: 15 Message: 27

Why can't you get your Ham ticket?

Kurt

----- Original Message -----
From: "Adam E" <gccradioscience@...>

I wish I could get my FCC license to operate in the Ham Bands

28. Re: [49_MHz] Re: music broadcasts

Yahoo group: 49_MHz
Date: 2011-07-18 04:53:43 UTC
From: Facility 406 DM09
Topic: 16 Message: 28

"Also another frequency for broadcasting when toy walkie talkies are on the air is 49.405 MHz, it was found on another walkie talkie set I had since 1996. I mostly broadcast on 49.860 MHz, but if the channel is busy then I relocate to 49.405 MHz to minimize"

I haven't heard of the frequency yet, not that I know of, anyway.

Have you checked out the TRC-512 five channel walkie talkies from Radio Shack? The chip that controls the frequencies has four pins on it, allowing uo to 16 combinations and frequencies. I haven't played with them yet to find out what all they can do, anyone else?

Kurt

29. 49 MHz SSB Transceiver

Yahoo group: 49_MHz
Date: 2011-08-31 19:54:53 UTC
From: kc8gpd
Topic: 29 Message: 29

part 15 states single 1 meter element and 100mW input measured at battery (power) terminals so i would guess a lowband base loaded mobile whip attached to a weather proof magnetic mount enclosure housing a wireline remote 5ch rockbound SSB (remember the 100mW limit? wonder if peak or average?) transceiver and whatever magnetic object you stick it to becomes the defacto second half (groundplane) of antenna and by my understanding would not be considered part of the antenna just a mounting surface. tin roof, car roof, metal table etc.

if one of you do this then share the designs and your results

happy qrp dxing

30. re:49 MHz SSB Transceiver

Yahoo group: 49_MHz
Date: 2011-08-31 19:57:48 UTC
From: kc8gpd
Topic: 29 Message: 30

remember the 100mW input to power terminals NOT final RF like the medium wave band so pay real careful attention to unnecessary circuit power draw. keep it as simple as possible. there will have to be some research into circuit complexity and quality versus power drain trade off.

31. Re: re:49 MHz SSB Transceiver

Yahoo group: 49_MHz
Date: 2011-08-31 20:19:40 UTC
From: kc8gpd
Topic: 29 Message: 31

note: these rules only apply to tranmitter, remember the old split stations of the tube era?

the receiver could be shut off during tx and re enabled during rx and there is no limit to the antenna on a receiver only on the transmitter.

can we say stacked beams, pre scalers, helical filters, hardline, tower mounted pre amps, etc?

--- In 49_MHz@yahoogroups.com, "kc8gpd" <kc8gpd@...> wrote:
>
> remember the 100mW input to power terminals NOT final RF like the medium wave band so pay real careful attention to unnecessary circuit power draw. keep it as simple as possible. there will have to be some research into circuit complexity and quality versus power drain trade off.
>

32. Re: re:49 MHz SSB Transceiver

Yahoo group: 49_MHz
Date: 2011-09-13 18:51:24 UTC
From: kc8gpd
Topic: 29 Message: 32

here is a link to a 49mhz design i cooked up...
http://www.facebook.com/photo.php?fbid=244755102230249&set=a.101008253271602.2031.100000872822280&type=1&theater

not a schematic just a rough idea of how to implement a legal license free dx setup

--- In 49_MHz@yahoogroups.com, "kc8gpd" <kc8gpd@...> wrote:
>
> note: these rules only apply to tranmitter, remember the old split stations of the tube era?
>
> the receiver could be shut off during tx and re enabled during rx and there is no limit to the antenna on a receiver only on the transmitter.
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> > remember the 100mW input to power terminals NOT final RF like the medium wave band so pay real careful attention to unnecessary circuit power draw. keep it as simple as possible. there will have to be some research into circuit complexity and quality versus power drain trade off.
> >
>

33. TRC-508 - Ebay Sale

Yahoo group: 49_MHz
Date: 2011-12-28 15:22:15 UTC
From: bachelorsgrove_com
Topic: 33 Message: 33

Howdy all,

I currently have four 49MHz radios for sale on Ebay that are the "secret service" style units by Radio Shack. I may be selling more of my 49MHz gear as well but here is the link if interested in the current ones for sale:

http://www.ebay.com/itm/180783169871?ssPageName=STRK:MESELX:IT&_trksid=p3984.m1555.l2649

Pete

34. power output mods for 49 mhz radios

Yahoo group: 49_MHz
Date: 2012-01-17 15:42:03 UTC
From: kc8gpd
Topic: 34 Message: 34

are there any mods to boost the power output on 49 mhz radios? seems there is a 10,000 uV/m @ 3m limitation now. it used to be 100mW and a 1 meter antenna.

i want to make them do 100mW and put a 1 meter whip base loaded with a ferrite toroid coil.

maybe a crystal switch mod too to make them switch between all 5 channels no matter what they are crystalled for.

i have a box of various 49 mhz radios.

even some midland 27 mhz part 15 fm cb's.

think these are limited to 10k uV/m @ 3m

would love to mode these for 100mW and put a base loaded whip on them.

35. Re: power output mods for 49 mhz radios

Yahoo group: 49_MHz
Date: 2012-03-09 00:51:45 UTC
From: bachelorsgrove_com
Topic: 34 Message: 35

The 100mw limitation is only on a select group of frequencies. I think it was 49.82 to 49.89 so it wasn't very many. It basically falls in the classic baby monitor band. The freqs are listed in the some of the FCC docs.

Otherwise, as far as mods, I don't have one for any 'particular model' but I have been able to easily modify a few baby monitors by simply changing a resistor involved with the final RF output transistor.

On some of the very old units this change was not needed for 100mw. Most of the newer units seem to require a change. Your results may vary so I can't say what value resistor you need.

I currently have one unit on 100mw that can be received with a lot of clarity up to around 1500 feet and half of that distance has a lot of trees with the rest being an open field. It makes an excellent nature monitor!

--- In 49_MHz@yahoogroups.com, "kc8gpd" <kc8gpd@...> wrote:
>
> are there any mods to boost the power output on 49 mhz radios? seems there is a 10,000 uV/m @ 3m limitation now. it used to be 100mW and a 1 meter antenna.
>
> i want to make them do 100mW and put a 1 meter whip base loaded with a ferrite toroid coil.
>
> maybe a crystal switch mod too to make them switch between all 5 channels no matter what they are crystalled for.
>
> i have a box of various 49 mhz radios.
>
> even some midland 27 mhz part 15 fm cb's.
>
> think these are limited to 10k uV/m @ 3m
>
> would love to mode these for 100mW and put a base loaded whip on them.
>

36. Re: [49_MHz] Re: power output mods for 49 mhz radios

Yahoo group: 49_MHz
Date: 2012-03-09 02:36:32 UTC
From: Dave
Topic: 34 Message: 36

--- On Thu, 3/8/12, bachelorsgrove_com <pcrapia@...> wrote:

> From: bachelorsgrove_com <pcrapia@...>
> Subject: [49_MHz] Re: power output mods for 49 mhz radios
> To: 49_MHz@yahoogroups.com
> Date: Thursday, March 8, 2012, 7:51 PM
>
> The 100mw limitation is only on a select group of frequencies.
> I think it was 49.82 to 49.89 so it wasn't very many. It basically
> falls in the classic baby monitor band. The freqs are listed in the
> some of the FCC docs.

47CFR15 Subpart C:

<http://www.gpo.gov/fdsys/pkg/CFR-2011-title47-vol1/pdf/CFR-2011-title47-vol1-part15.pdf>

> Otherwise, as far as mods, I don't have one for any
> 'particular model' but I have been able to easily modify a
> few baby monitors by simply changing a resistor involved
> with the final RF output transistor.
>
> On some of the very old units this change was not needed for
> 100mw. Most of the newer units seem to require a change.
> Your results may vary so I can't say what value resistor you
> need.
>
> I currently have one unit on 100mw that can be received with
> a lot of clarity up to around 1500 feet and half of that
> distance has a lot of trees with the rest being an open
> field. It makes an excellent nature monitor!

Dave

37. Re: power output mods for 49 mhz radios

Yahoo group: 49_MHz
Date: 2012-03-11 05:15:44 UTC
From: Steven C
Topic: 34 Message: 37

All,

Specifically

http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=c2a32be4e51df04ebf20f42f31615e14&rgn=div8&view=text&node=47:1.0.1.1.16.3.234.23&idno=47

For a plain-language interpretation, see

http://transition.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet63/oet63rev.pdf

(If you get a blank screen, scroll down. It normally heals.)

For fixed-location-to-fixed-location VHF, receiver antenna gain can do more good than increasing transmitter power. For instance a 6-db gain Yagi (3 elements) produces as much increase in received power as a 4 times transmitter power increase.

A low-noise receiver preamplifier can also make significant improvement. Low-noise amplifier (LNA) ICs now cost less than US$2.00. While surface mount, they have only 4 leads. Therefore, they fall within most radio builders skill range.

At these frequencies evaluating transmitter power changes becomes tricky. Increasing input power may change the voltage across a junction. The resulting changed capacitance may detune a circuit resulting in less output power. A changed input may also shift a transistor's or IC's bias to a point of reduced efficiency.

With AM increased input power can end up entirely in the carrier with no sideband increase. When the "seeing" increased carrier power the AGC turns down IG gain making the sidebands weaker at the demodulator. Consequently, the audio actually sounds weaker.

Happy communicating,

Steven

38. 49 MHz rigs on ebay.

Yahoo group: 49_MHz
Date: 2012-04-17 04:03:18 UTC
From: Facility 406 DM09
Topic: 38 Message: 38

Not mine, don't know the seller, but someone may want to snag these:

221003030861

Kurt

39. 49MHz Monitor kit from Vectronics. Tha Dood

Yahoo group: 49_MHz
Date: 2013-11-12 23:32:34 UTC
From: <rreh917@...>
Topic: 39 Message: 39

Here's a kit from Vectronics for 49MHz monitoring for $35.00 USD.

http://www.vectronics.com/Product.php?productid=VEC-1016K

I might get it just so I have another monitor for my AUX Station on 49.890MHz FM.

Tha Dood

Real Free Radio, AM1620! Check out the web page http://vk.com/realfreeradio .

40. RE: 49MHz Monitor kit from Vectronics. Tha Dood

Yahoo group: 49_MHz
Date: 2013-11-13 18:23:05 UTC
From: <radiorob1@...>
Topic: 39 Message: 40

I think this kit has been available for maybe 20 years at least.
I think for the money, you could purchase a superior used 20 year old scanner.

---In 49_MHz@yahoogroups.com, <rreh917@...> wrote:

Here's a kit from Vectronics for 49MHz monitoring for $35.00 USD.

http://www.vectronics.com/Product.php?productid=VEC-1016K

I might get it just so I have another monitor for my AUX Station on 49.890MHz FM.

Tha Dood

Real Free Radio, AM1620! Check out the web page http://vk.com/realfreeradio .

41. RE: 49MHz Monitor kit from Vectronics. Tha Dood

Yahoo group: 49_MHz
Date: 2013-11-13 18:43:58 UTC
From: <w0jrt@...>
Topic: 39 Message: 41

Thanks for the link... that looks like a fun winter-project kit. I read part of the manual and noticed it has a buffered output of the LO. With a little effort it should be possible to build a custom display, perhaps driven by a PIC or similar micro, that would display the RX frequency.

---In 49_MHz@yahoogroups.com, <rreh917@...> wrote:

Here's a kit from Vectronics for 49MHz monitoring for $35.00 USD.

http://www.vectronics.com/Product.php?productid=VEC-1016K

I might get it just so I have another monitor for my AUX Station on 49.890MHz FM.

Tha Dood

Real Free Radio, AM1620! Check out the web page http://vk.com/realfreeradio .